

FIG. 1A  
(PRIOR ART)

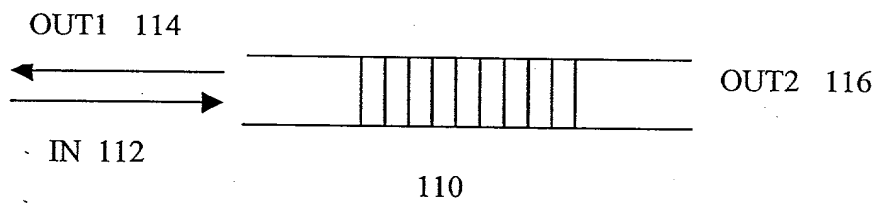


FIG. 1B  
(PRIOR ART)

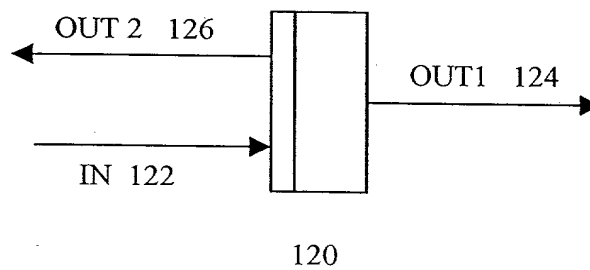


FIG. 1C  
(PRIOR ART)

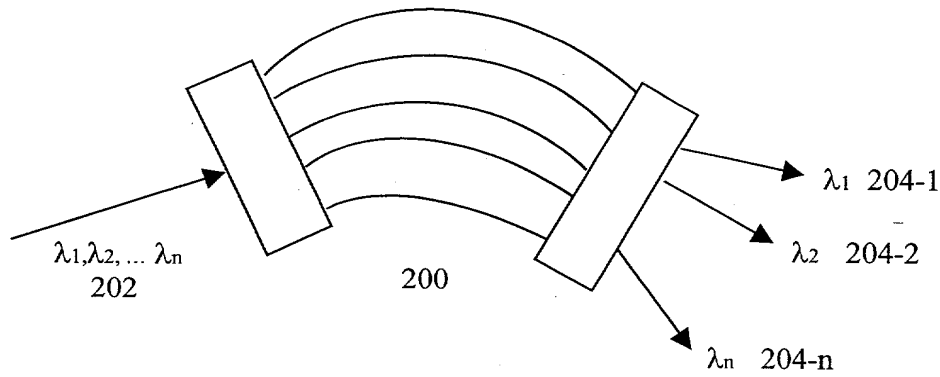


FIG. 2A  
(PRIOR ART)

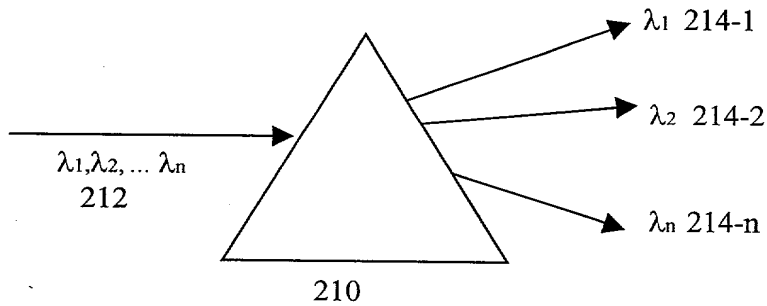


FIG. 2B  
(PRIOR ART)

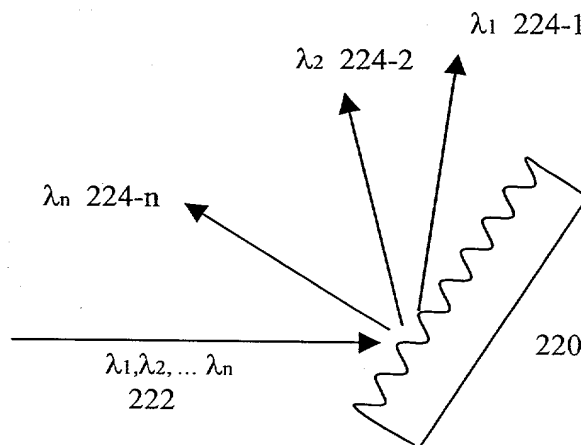


FIG. 2C  
(PRIOR ART)

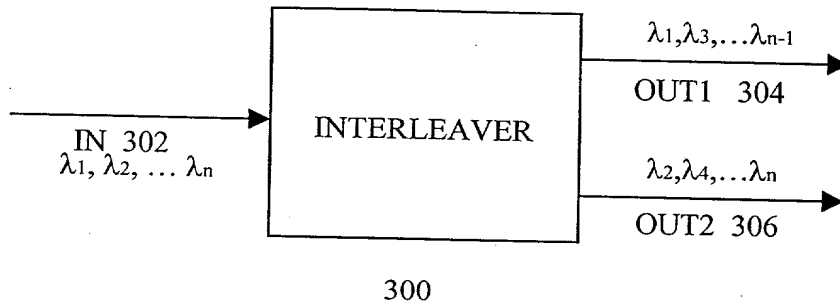


FIG. 3A  
(PRIOR ART)

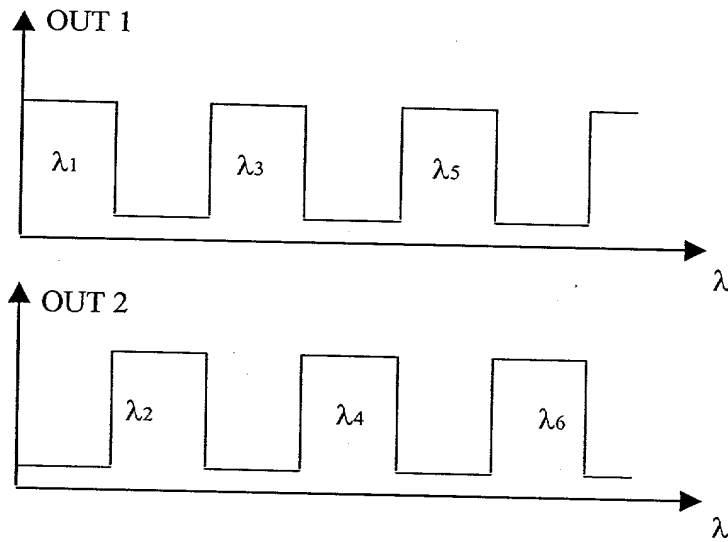


FIG. 3B  
(PRIOR ART)

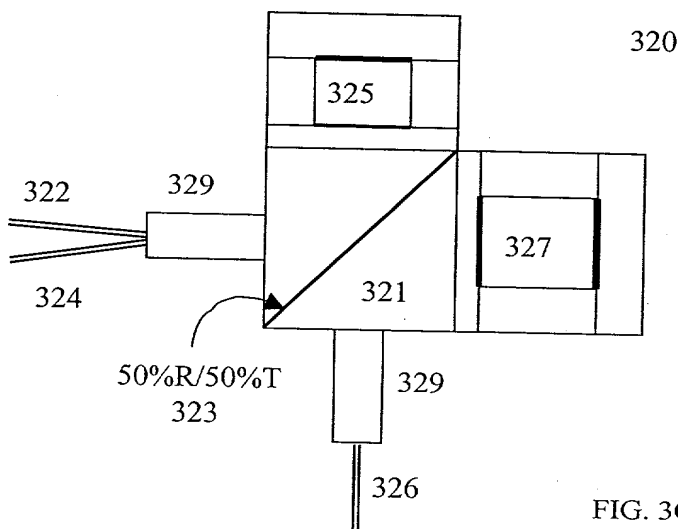


FIG. 3C  
(PRIOR ART)

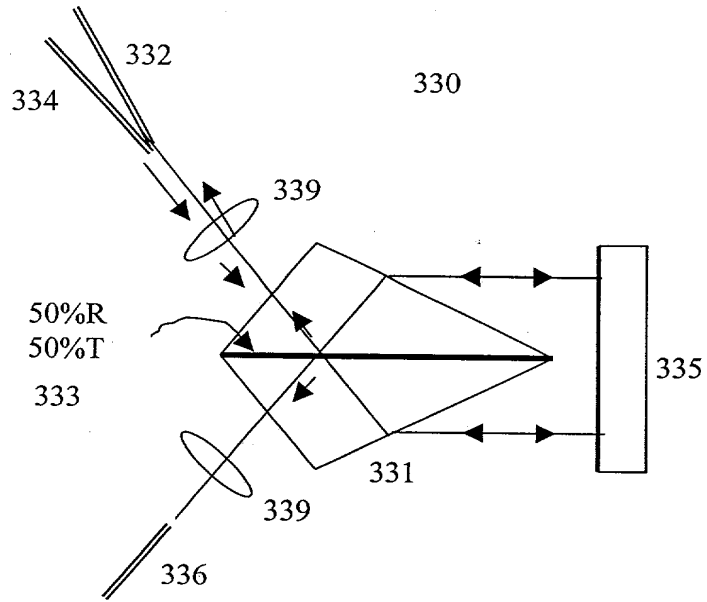


FIG. 3D  
(PRIOR ART)

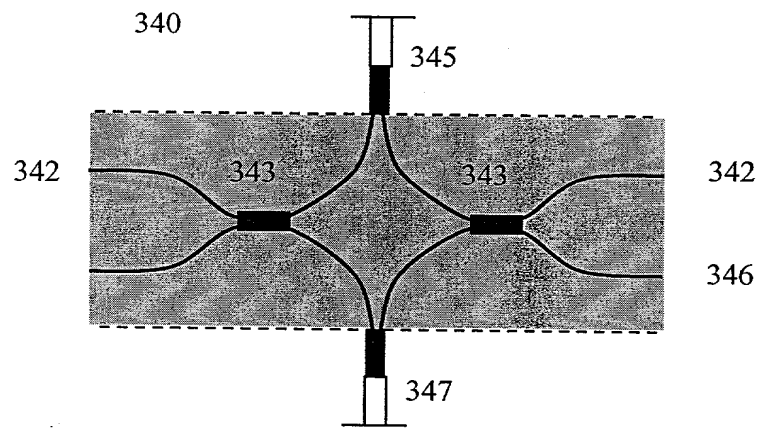


FIG. 3E  
(PRIOR ART)

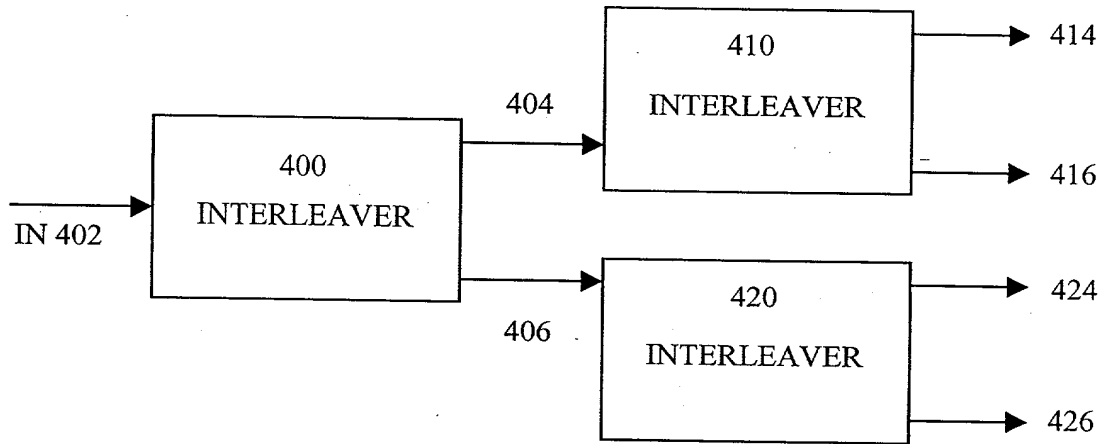


FIG. 4A  
 (PRIOR ART)

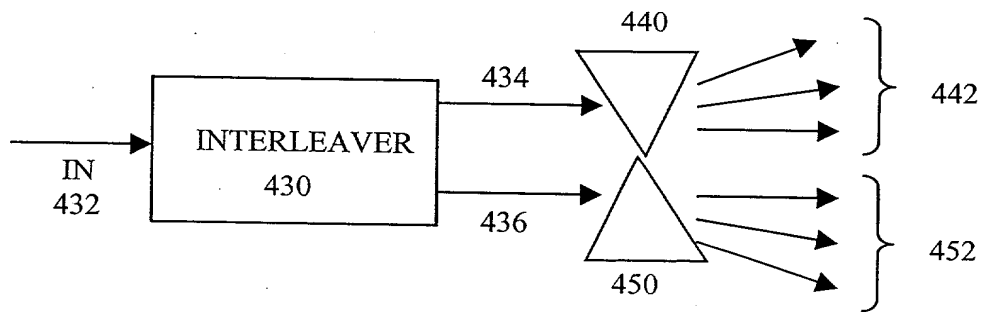


FIG. 4B  
 (PRIOR ART)

2006040" 0822001

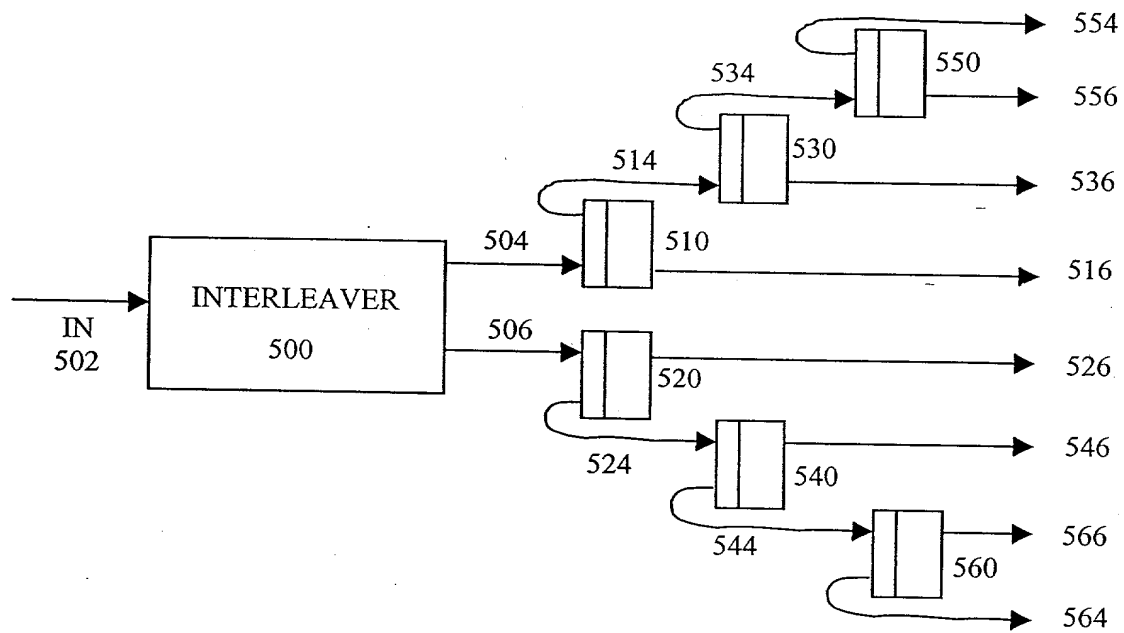


FIG. 5  
(PRIOR ART)

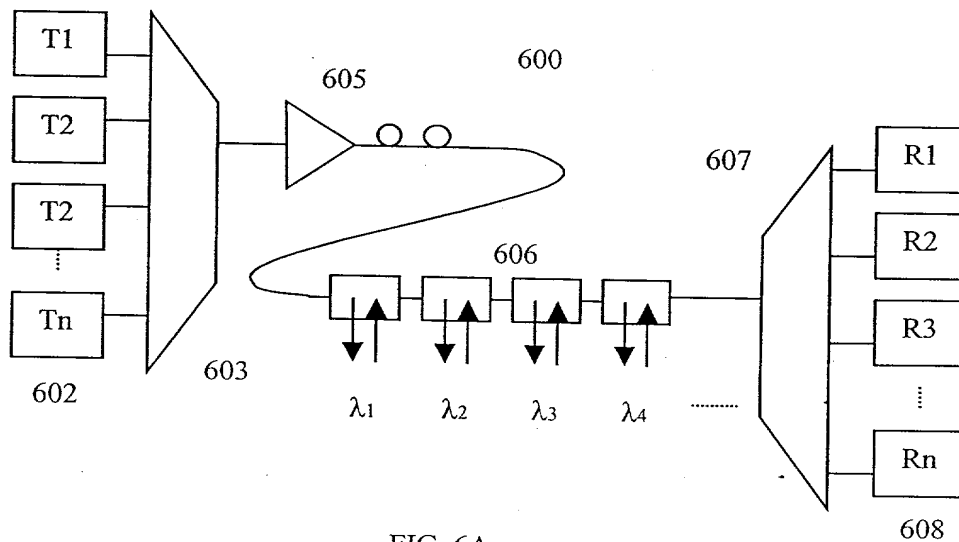


FIG. 6A  
(PRIOR ART)

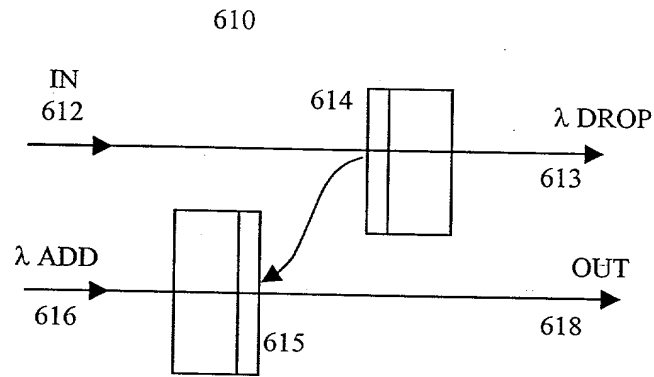


FIG. 6B  
(PRIOR ART)

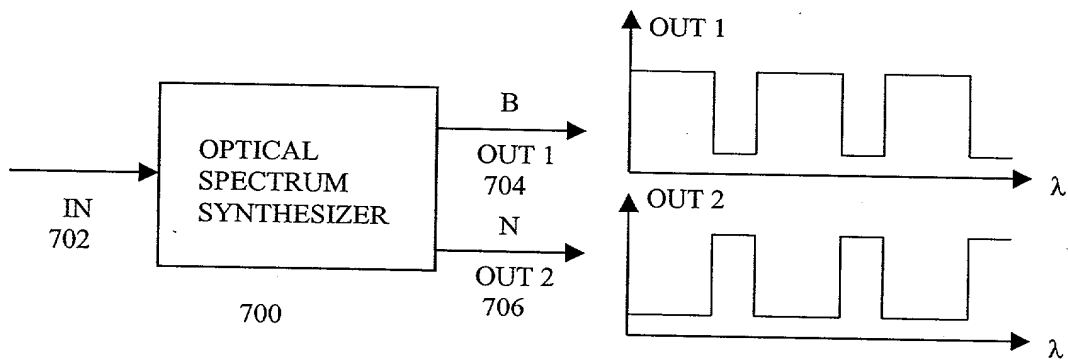


FIG. 7A

FIG. 7B

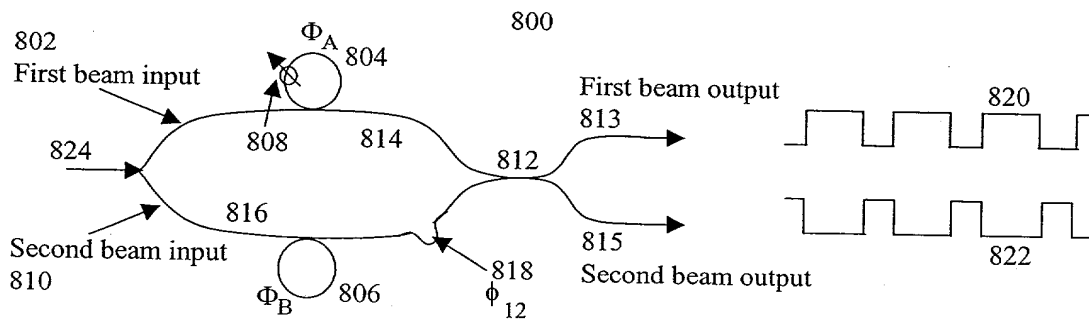


Fig. 8A

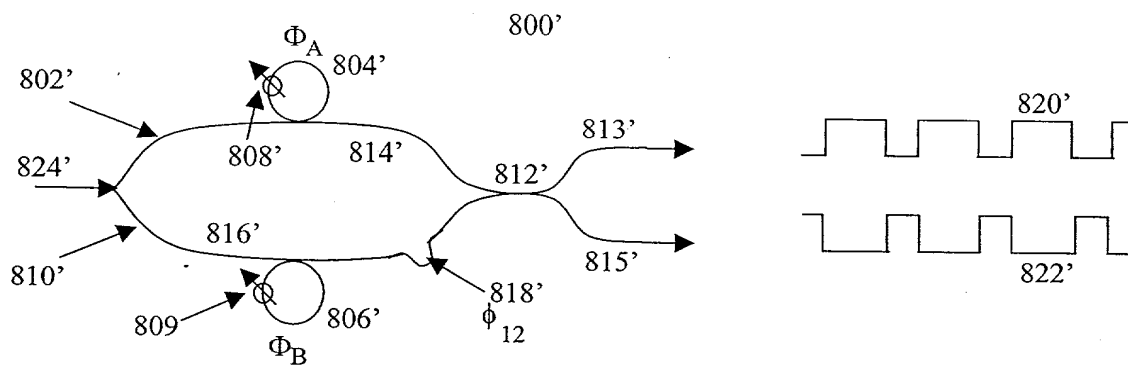


Fig. 8B

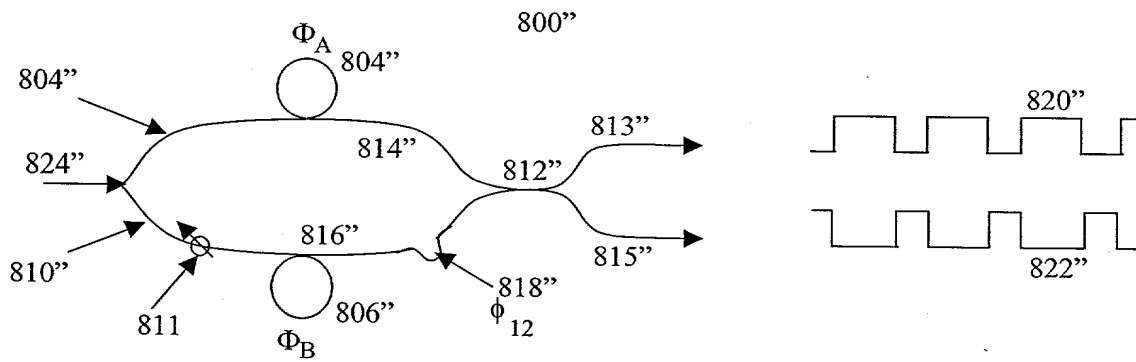


Fig. 8C

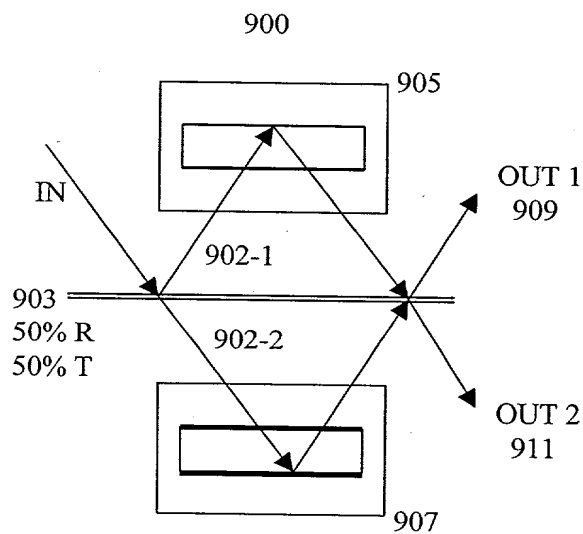


FIG. 9A



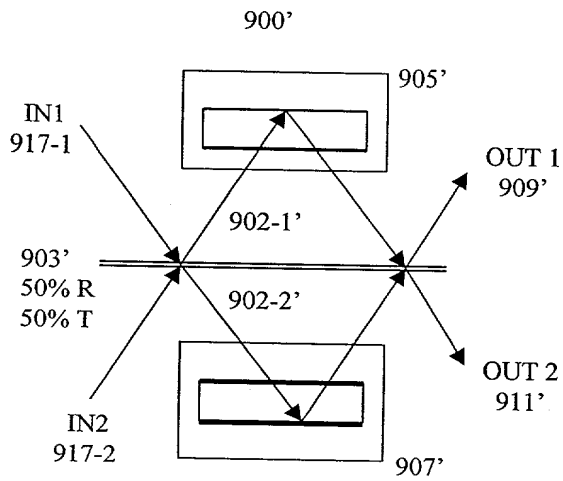


FIG. 9B

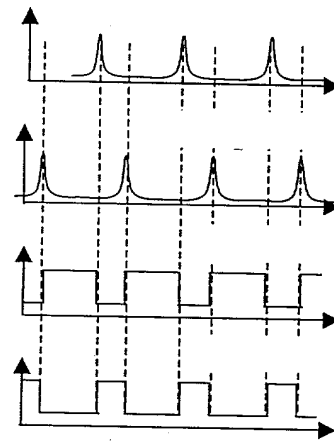


FIG. 9C

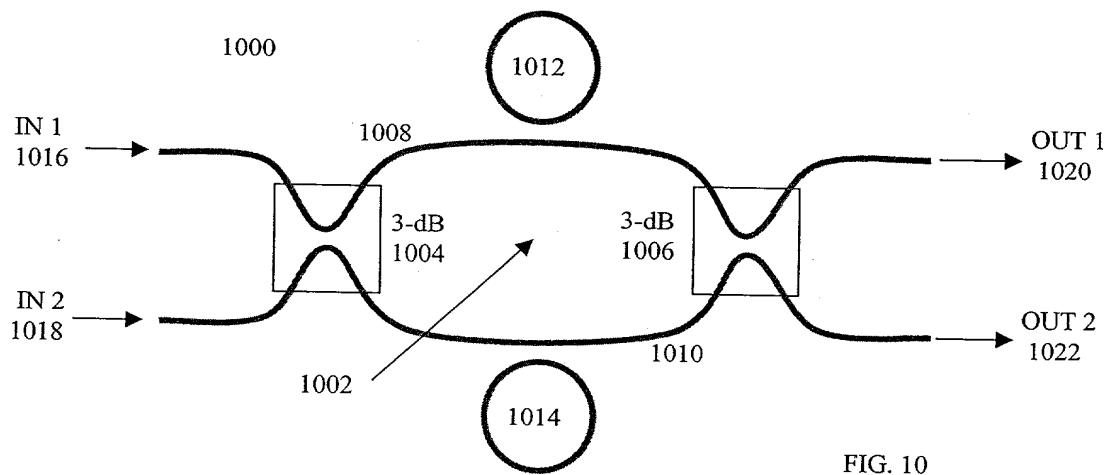


FIG. 10

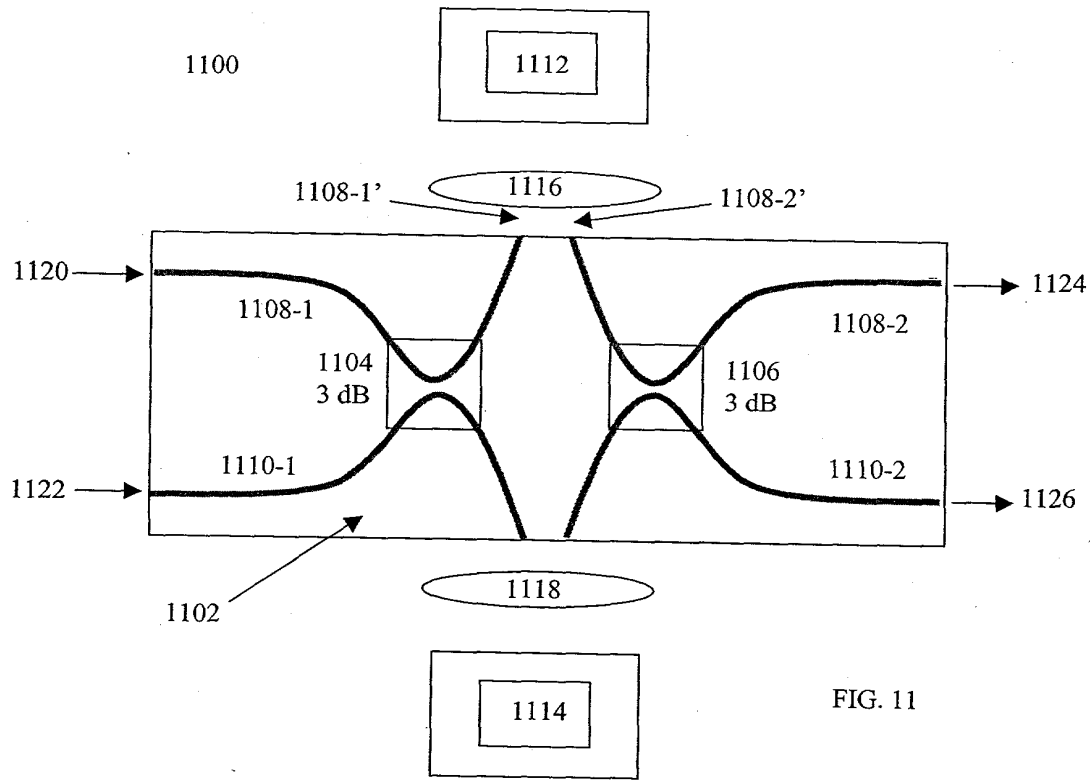


FIG. 11

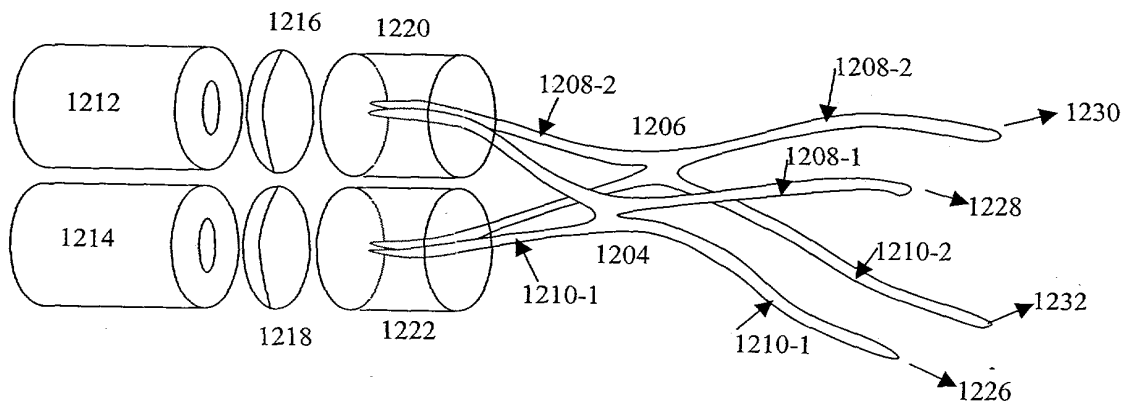


FIG. 12



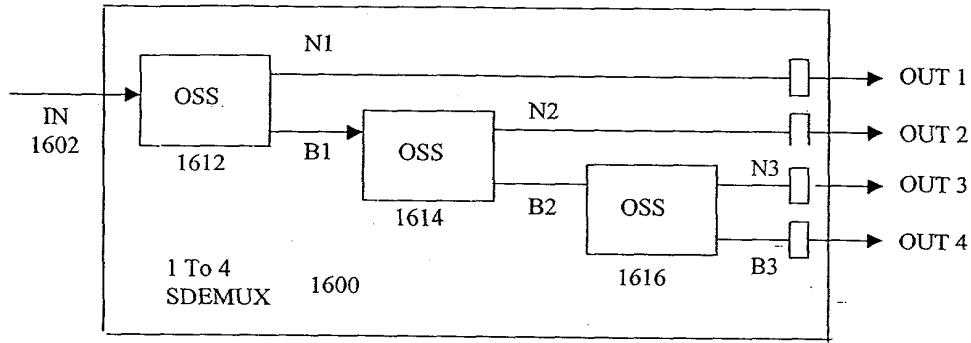


FIG. 16A

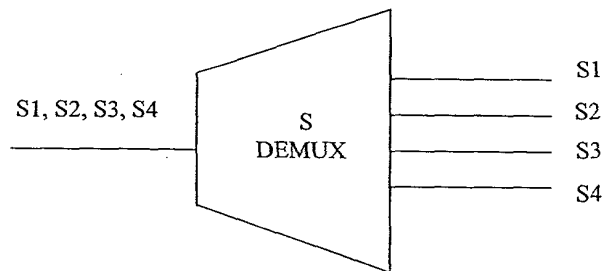


FIG. 16B

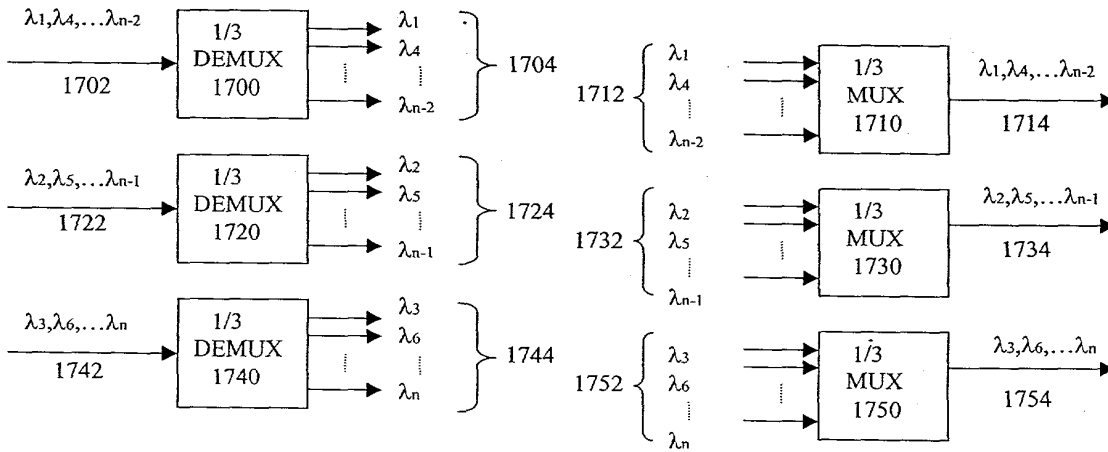


FIG. 17A

FIG. 17B

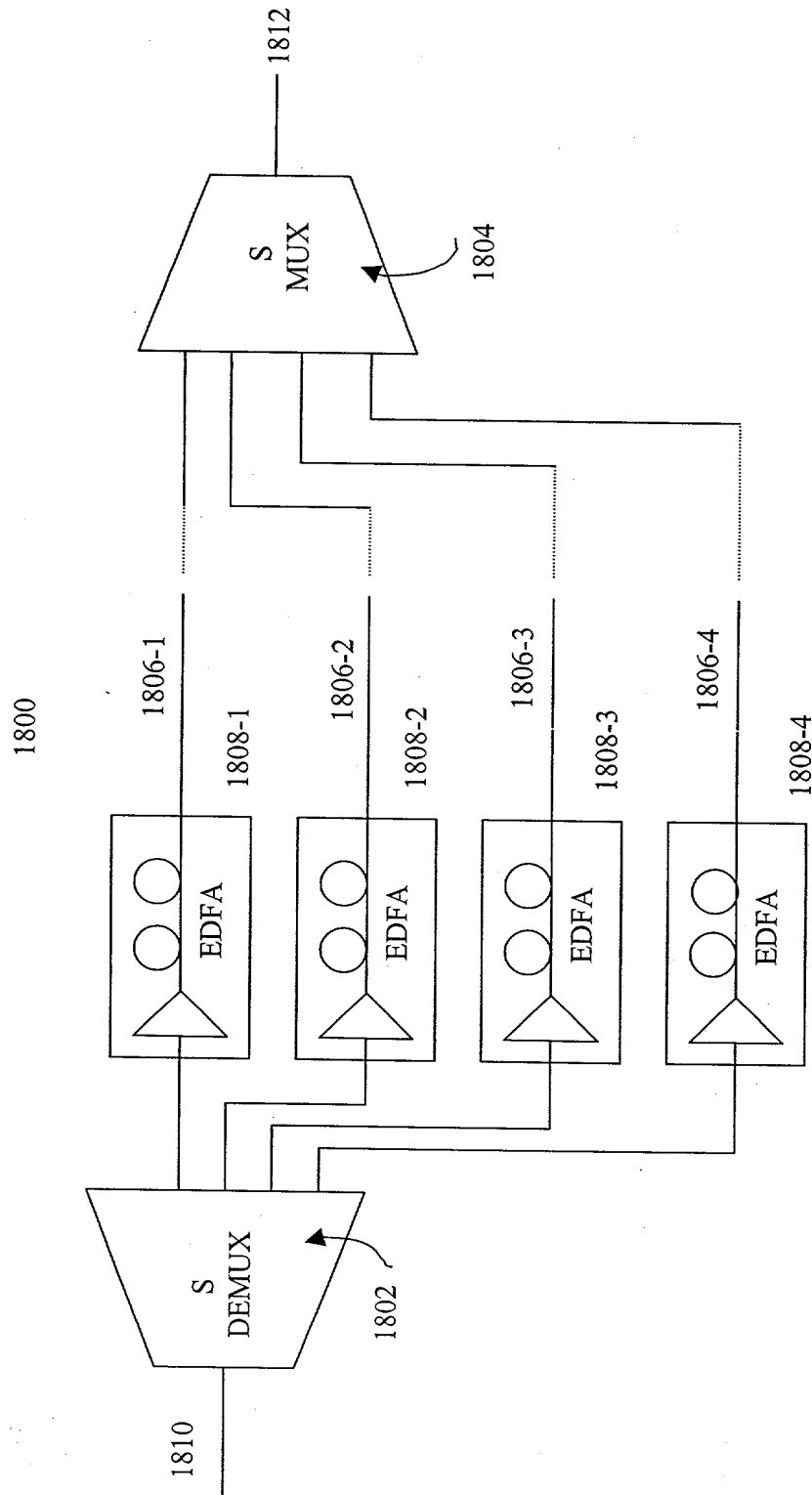


FIG. 18

SPECTRUM ADD-DROP MODULE 1900

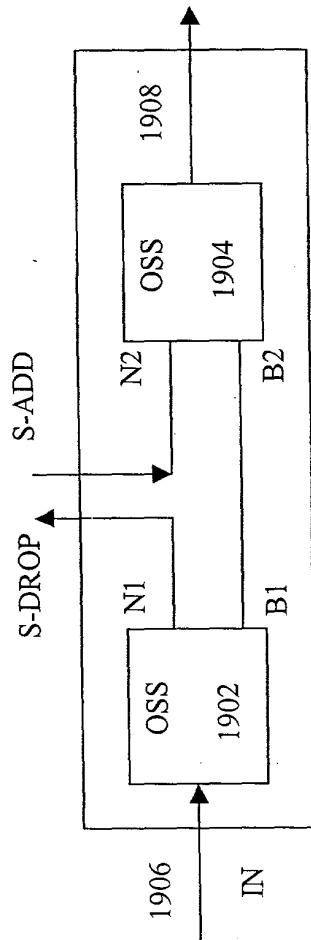


FIG. 19A

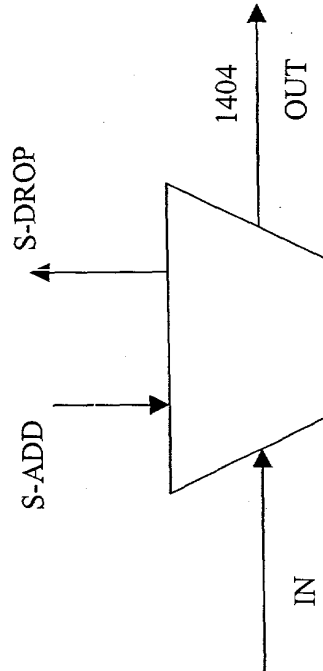
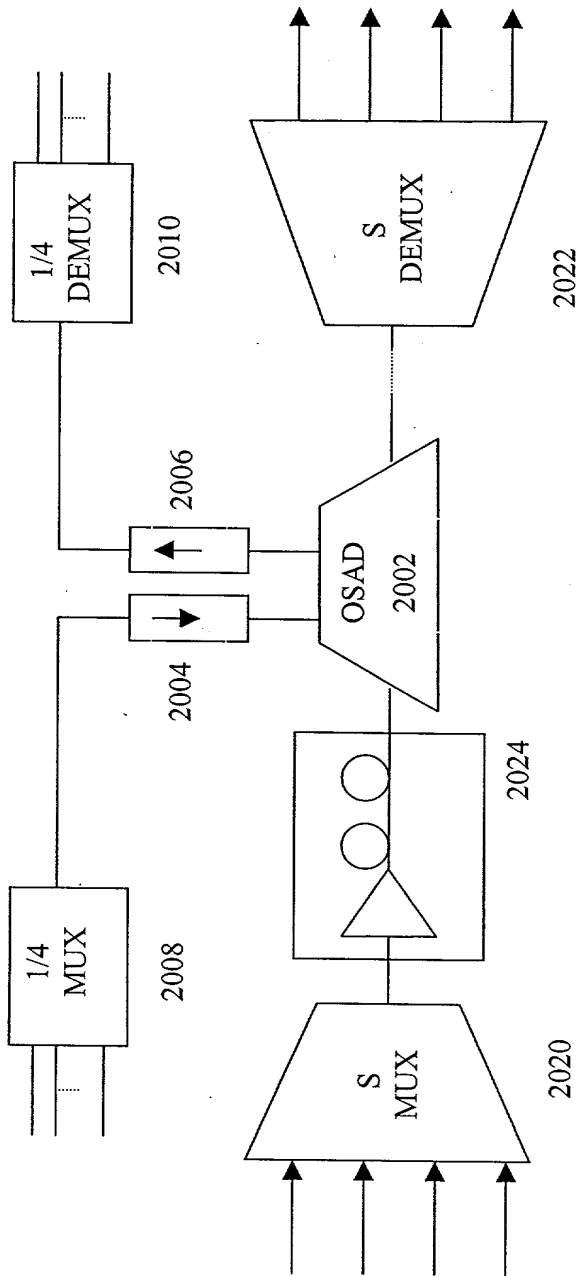


FIG. 19B



1400

FIG. 20

2008 2010 2020 2022 2004 2006 2002 2024

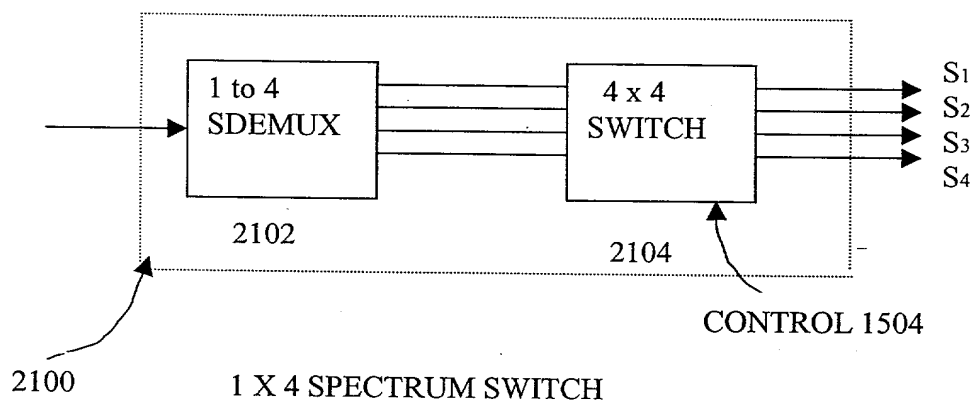


FIG. 21A

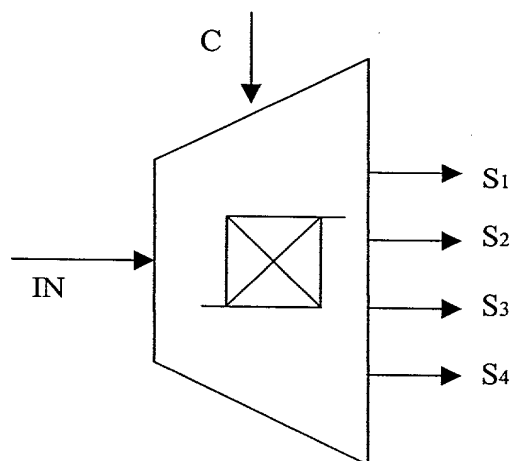
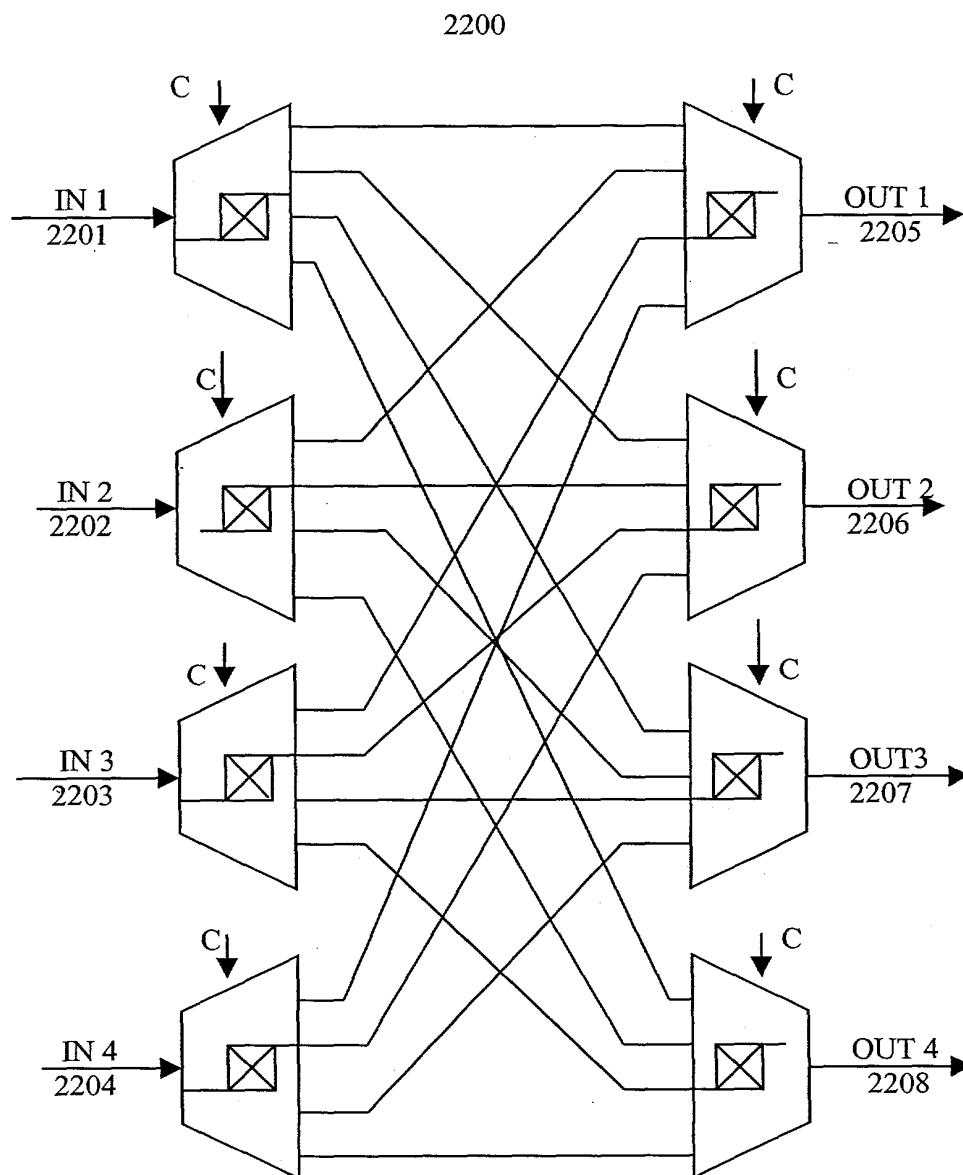


FIG. 21B





4x4x4 SPECTRUM CROSS-CONNECT

FIG. 22

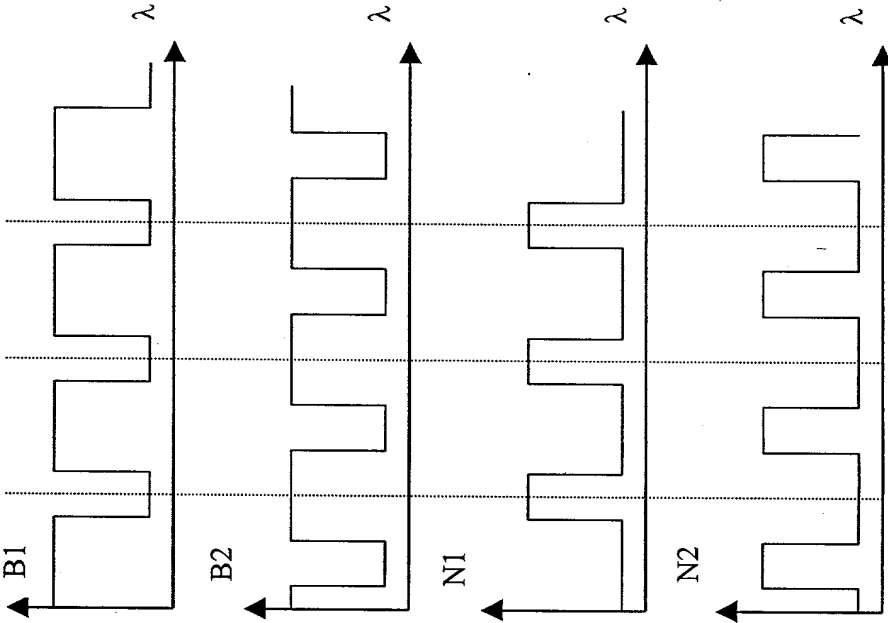


FIG. 23B

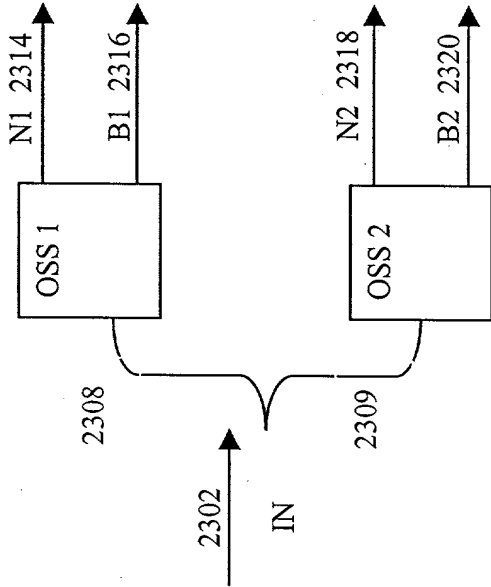


FIG. 23A

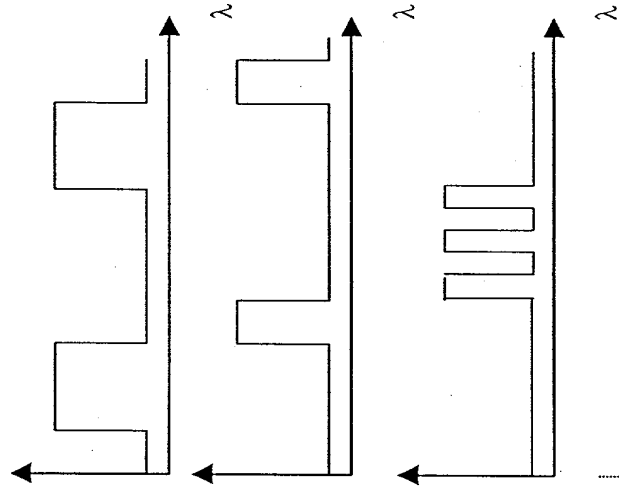


FIG. 24B

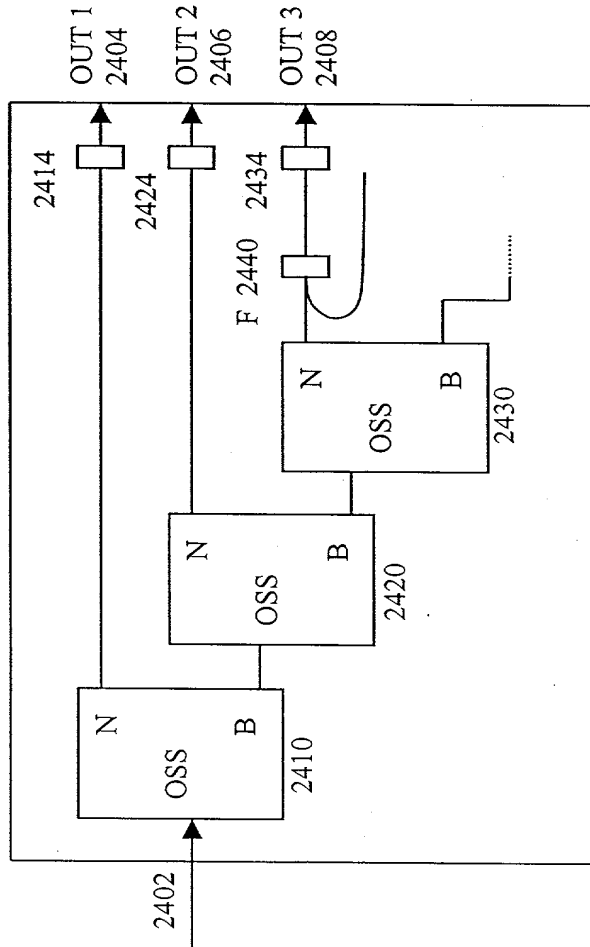


FIG. 24A